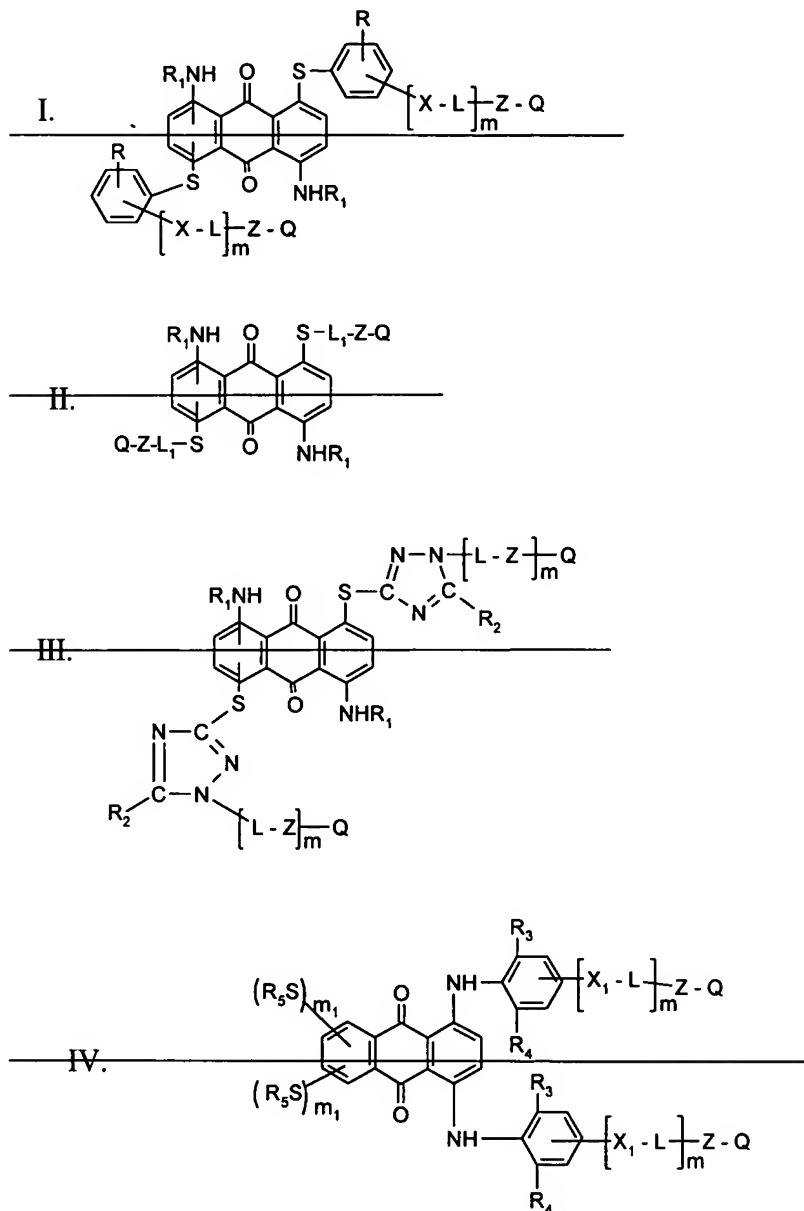
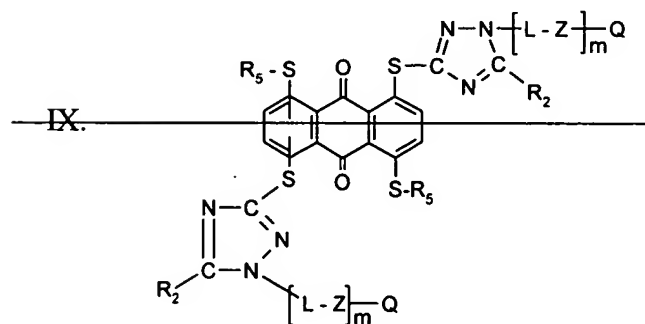
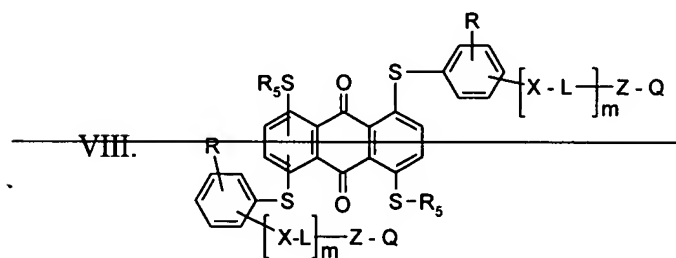
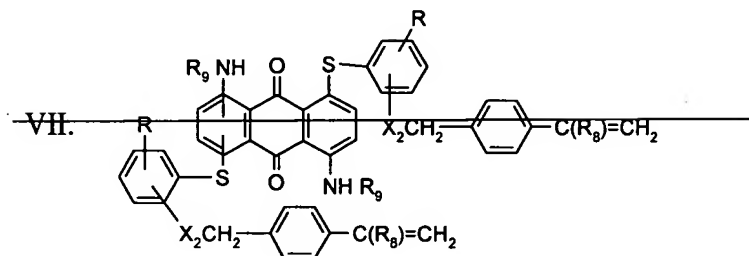
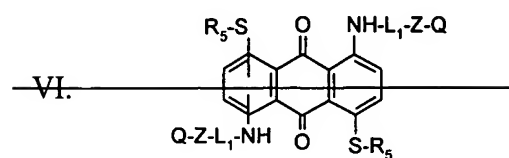
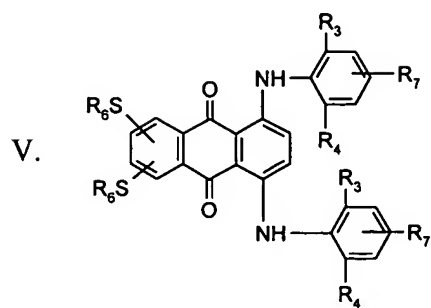
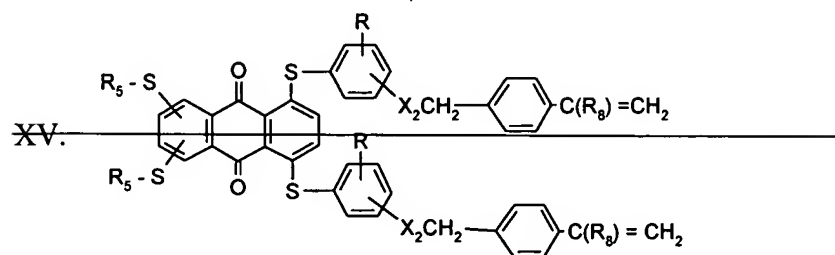
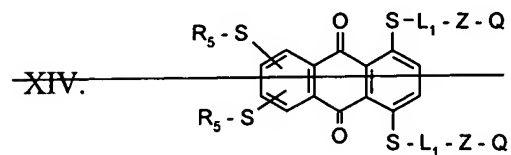
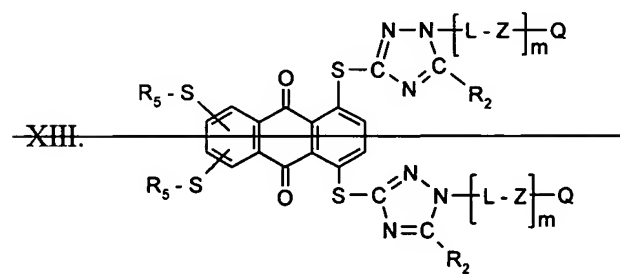
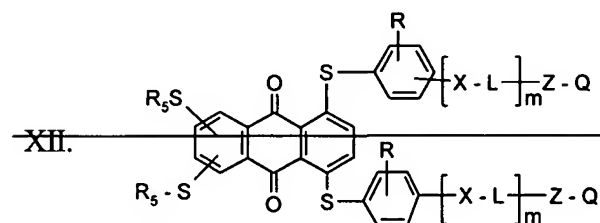
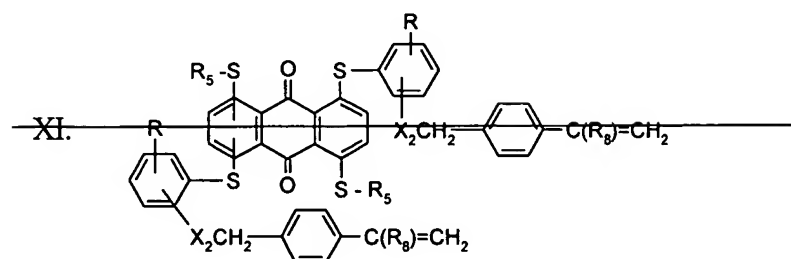
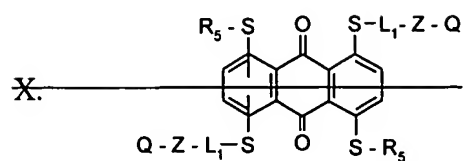


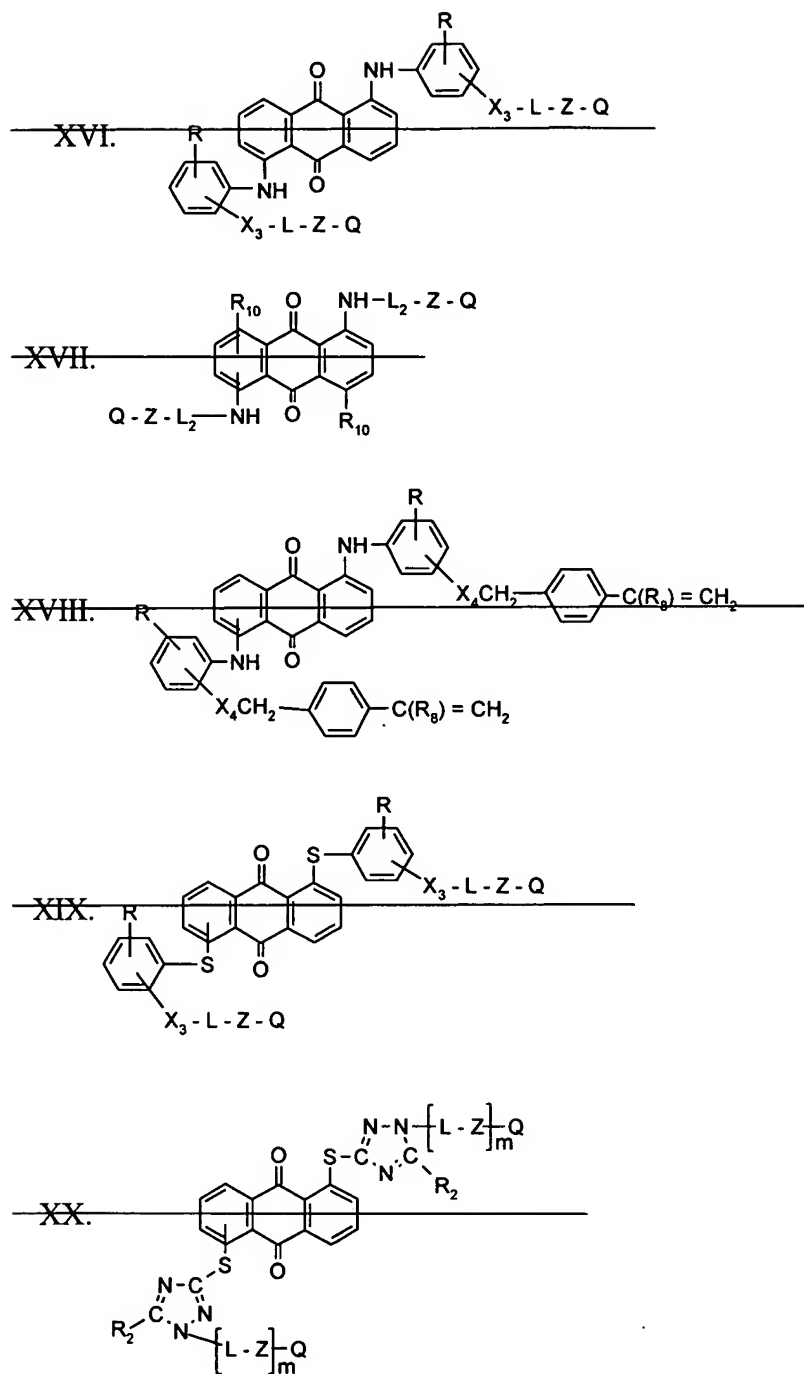
AMENDMENT

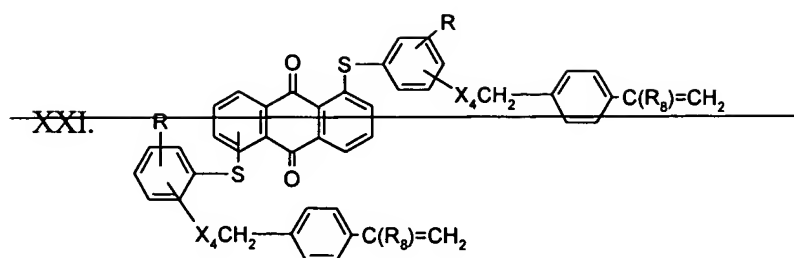
1. (Currently Amended) Anthraquinone dye compounds having ~~the formulae:~~ formula V.:











wherein:

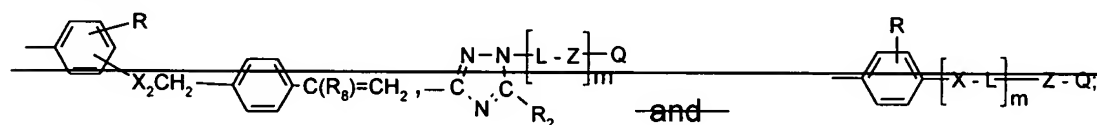
R is ~~selected from~~ hydrogen or 1-3 groups selected from C<sub>1</sub> - C<sub>6</sub>-alkyl, C<sub>1</sub> - C<sub>6</sub>-alkoxy and halogen;

~~R<sub>1</sub> is selected from C<sub>4</sub> - C<sub>6</sub>-alkyl, substituted C<sub>4</sub> - C<sub>6</sub>-alkyl, C<sub>3</sub> - C<sub>8</sub>-alkenyl, C<sub>2</sub> - C<sub>8</sub>-cycloalkyl, aryl and L<sub>1</sub>-Z-Q;~~

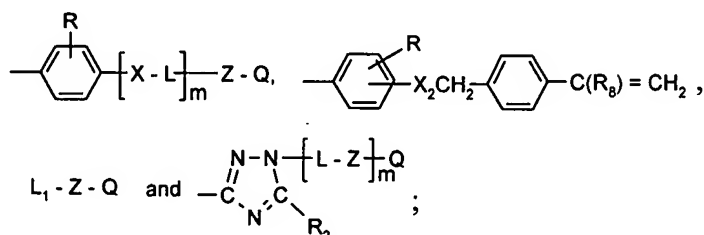
~~R<sub>2</sub> = selected from hydrogen~~ is hydrogen, C<sub>1</sub> - C<sub>6</sub>-alkyl, substituted C<sub>1</sub> - C<sub>6</sub>-alkyl, C<sub>3</sub> - C<sub>8</sub>-cycloalkyl ~~and aryl~~ or aryl;

R<sub>3</sub> and R<sub>4</sub> are independently selected from C<sub>1</sub> - C<sub>6</sub>-alkyl ~~and or~~ or bromine;

~~R<sub>5</sub> is selected from C<sub>4</sub> - C<sub>6</sub>-alkyl, substituted C<sub>4</sub> - C<sub>6</sub>-alkyl, C<sub>2</sub> - C<sub>8</sub>-cycloalkyl, aryl, heteroaryl, L<sub>1</sub>-Z-Q;~~



R<sub>6</sub> is selected from



R<sub>7</sub> is ~~selected from~~ hydrogen, substituted or unsubstituted C<sub>1</sub> - C<sub>6</sub>-alkyl, C<sub>1</sub> - C<sub>6</sub>-alkoxy, halogen, hydroxy, substituted or unsubstituted C<sub>1</sub> - C<sub>6</sub>-alkylthio, sulfamoyl ~~and or~~ or substituted sulfamoyl;

~~R<sub>8</sub> is selected from hydrogen and~~ hydrogen or C<sub>1</sub> - C<sub>6</sub>-alkyl;

~~R<sub>9</sub> is selected from the groups represented by R<sub>4</sub> and L-Z-Q;~~

~~R<sub>10</sub> is selected from hydrogen and halogen;~~

X is a covalent bond or a divalent linking group selected from -O-, -S-, -SO<sub>2</sub>-, -CO<sub>2</sub>-, -CON(Y)- and -SO<sub>2</sub>N(Y)-, wherein Y is ~~selected from~~ hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>3</sub>-C<sub>8</sub>-cycloalkyl, C<sub>3</sub>-C<sub>8</sub>-alkenyl, ~~aryl and~~ aryl or -L-Z-Q;

~~X<sub>1</sub> is selected from O, S, SO<sub>2</sub> and SO<sub>2</sub>N(Y);~~

X<sub>2</sub> is selected from -CO<sub>2</sub>- and -SO<sub>2</sub>N(Y<sub>1</sub>), wherein Y<sub>1</sub> is ~~a group selected from~~ hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, substituted C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>3</sub>-C<sub>8</sub>-alkenyl, C<sub>3</sub>-C<sub>8</sub>-cycloalkyl, aryl, heteroaryl ~~and or~~ -CH<sub>2</sub>-p-C<sub>6</sub>H<sub>4</sub>-C(R<sub>8</sub>)=CH<sub>2</sub>;

~~X<sub>3</sub> is selected from CO<sub>2</sub>, SO<sub>2</sub>N(Y);~~

~~X<sub>4</sub> is selected from CO<sub>2</sub>, O and SO<sub>2</sub>N(Y<sub>1</sub>);~~

L is a divalent linking group selected from C<sub>1</sub>-C<sub>8</sub>-alkylene, C<sub>1</sub>-C<sub>6</sub>-alkylene-arylene, arylene, C<sub>1</sub>-C<sub>6</sub>-alkylene-arylene-C<sub>1</sub>-C<sub>6</sub>-alkylene, C<sub>3</sub>-C<sub>8</sub>-cycloalkylene, C<sub>1</sub>-C<sub>6</sub>-alkylene-C<sub>3</sub>-C<sub>8</sub>-cycloalkylene-C<sub>1</sub>-C<sub>6</sub>-alkylene, C<sub>1</sub>-C<sub>6</sub>-alkylene-Z<sub>1</sub>-arylene-Z<sub>1</sub>-C<sub>1</sub>-C<sub>6</sub>-alkylene ~~and or~~ C<sub>2</sub>-C<sub>6</sub>-alkylene-[-Z<sub>1</sub>-C<sub>2</sub>-C<sub>6</sub>-alkylene-]<sub>n</sub>- wherein Z<sub>1</sub> is ~~selected from~~ -O-, -S- ~~and or~~ -SO<sub>2</sub>- and n is 1-3;

L<sub>1</sub> is a divalent linking group selected from C<sub>2</sub>-C<sub>6</sub>-alkylene, C<sub>1</sub>-C<sub>6</sub>-alkylene-C<sub>3</sub>-C<sub>8</sub>-cycloalkylene-C<sub>1</sub>-C<sub>6</sub>-alkylene, C<sub>1</sub>-C<sub>6</sub>-alkylene-arylene, C<sub>3</sub>-C<sub>8</sub>-cycloalkylene, ~~and or~~ C<sub>2</sub>-C<sub>6</sub>-alkylene-[-Z<sub>1</sub>-C<sub>2</sub>-C<sub>6</sub>-alkylene-]<sub>n</sub>-, wherein Z<sub>1</sub> is -O-, -S- or -SO<sub>2</sub>- ~~and n is 1-3;~~

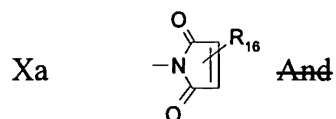
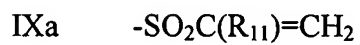
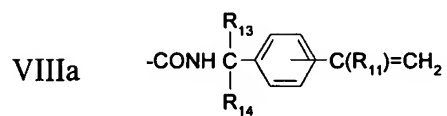
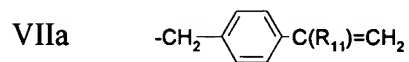
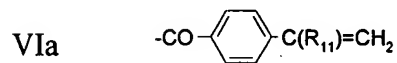
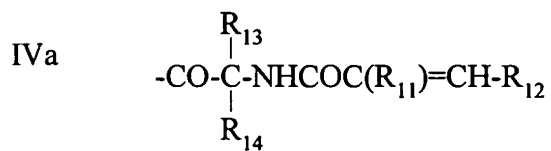
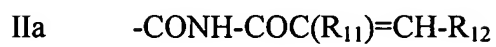
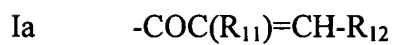
~~L<sub>2</sub> is selected from C<sub>2</sub>-C<sub>6</sub>-alkylene, C<sub>1</sub>-C<sub>6</sub>-alkylene-arylene-C<sub>1</sub>-C<sub>6</sub>-alkylene and C<sub>1</sub>-C<sub>6</sub>-alkylene-C<sub>3</sub>-C<sub>8</sub>-cycloalkylene-C<sub>1</sub>-C<sub>6</sub>-alkylene;~~

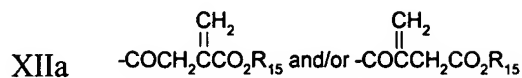
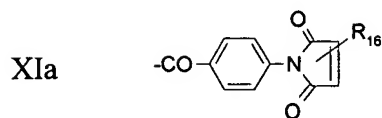
Z is a divalent group selected from -O-, -S-, -NH-, -N(C<sub>1</sub>-C<sub>6</sub>-alkyl)-, -N(C<sub>3</sub>-C<sub>8</sub> alkenyl)-, -N(C<sub>3</sub>-C<sub>8</sub> cycloalkyl)-, -N(aryl)-, -N(SO<sub>2</sub>C<sub>1</sub>-C<sub>6</sub>-alkyl) ~~and or~~ -N(SO<sub>2</sub> aryl)-, provided that when Q is a photopolymerizable optionally substituted maleimide radical, Z represents a covalent bond;

Q is an ethylenically-unsaturated, photosensitive polymerizable group; and

~~m and m<sub>1</sub> each is 0 or 1~~ m is 0 or 1.

2. (Currently amended) Anthraquinone compounds according to Claim 1 wherein the ethylenically-unsaturated, photosensitive copolymerizable groups represented by Q are selected from the following organic radicals:





wherein:

$R_{11}$  is ~~selected from hydrogen and~~ hydrogen or  $C_1$ - $C_6$ -alkyl;

$R_{12}$  is ~~selected from~~ hydrogen;  $C_1$ - $C_6$ -alkyl; phenyl ~~and or~~ phenyl substituted with one or more groups selected from  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy, -N( $C_1$ - $C_6$ -alkyl), nitro, cyano,  $C_1$ - $C_6$ -alkoxycarbonyl,  $C_1$ - $C_6$ -alkanoyloxy and halogen; ~~1- and 2-naphthyl~~ 1- or 2-naphthyl which may be substituted with  $C_1$ - $C_6$ -alkyl or  $C_1$ - $C_6$ -alkoxy; ~~2- and 3-thienyl~~ 2- or 3-thienyl which may be substituted with  $C_1$ - $C_6$ -alkyl or halogen; or 2- or 3-furyl which may be substituted with  $C_1$ - $C_6$ -alkyl;

$R_{13}$  and  $R_{14}$  are ~~selected from~~ hydrogen,  $C_1$ - $C_6$ -alkyl, substituted  $C_1$ - $C_6$ -alkyl, aryl or may be combined to represent a  $[-CH_2-]_{3-5}$  radical;

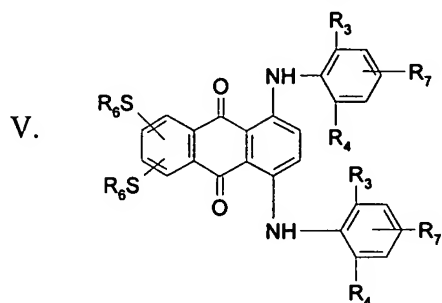
$R_{15}$  is ~~selected from~~ hydrogen,  $C_1$ - $C_6$ -alkyl, substituted  $C_1$ - $C_6$ -alkyl,  $C_3$ - $C_8$ -alkenyl,  $C_3$ - $C_8$ -cycloalkyl ~~and aryl~~ or aryl;

$R_{16}$  is ~~selected from~~ hydrogen,  $C_1$  -  $C_6$ -alkyl ~~and aryl~~ or aryl.

Claims 3 – 6 (Canceled)



7. (Original) Anthraquinone compounds according to Claim 2 having the formula:



wherein Z is -O-.

Claims 8 – 18 (Canceled)

19. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical Ia.

20. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical Ia wherein R<sub>11</sub> is hydrogen or methyl and R<sub>12</sub> is hydrogen.

21. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIa.

22. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIa wherein R<sub>11</sub> is hydrogen.

23. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIIa.

24. (Original) Anthraquinone compounds according to Claim 2 wherein Q is organic radical VIIIa wherein R<sub>11</sub> is hydrogen or methyl and R<sub>13</sub> and R<sub>14</sub> are methyl.

Claims 25 – 46 (Canceled)

47. (Original) A coating composition comprising (i) one or more polymerizable vinyl compounds, (ii) one or more of the dye compounds of Claim 1, and (iii) a photoinitiator.

48. (Currently amended) A coating composition ~~according to Claim 47~~ comprising (i) one or more polymerizable vinyl compounds, (ii) one or more of the dye compounds of Claim 2 present in a concentration of about 0.05 to 15 weight percent based on the weight of component (i), and (iii) a photoinitiator present in a concentration of about 1 to 15 weight percent based on the weight of the polymerizable vinyl compound(s) present in the coating composition.

49. (Original) A coating composition according to Claim 48 wherein the polymerizable vinyl compounds comprise a solution of a polymeric, polymerizable vinyl compound selected from acrylated and methacrylated polyesters, acrylated and methacrylated polyethers, acrylated and methacrylated epoxy polymers, acrylated or methacrylated urethanes, and mixtures thereof, in a diluent selected from monomeric acrylate and methacrylate esters.

50. (Currently amended) A polymeric coating composition comprising a polymer of one or more acrylic acid esters, one or more methacrylic acid esters ~~and/or other or~~ other copolymerizable vinyl compounds, having copolymerized therein one or more of the dye compounds defined in Claim 1.

51. (Currently amended) A polymeric coating composition ~~according to Claim 50~~ comprising a coating of an acrylic polymer of one or more acrylic acid esters, one or more methacrylic acid esters or a mixture thereof having copolymerized therein one or more of the dye compounds defined in Claim 2.

52. (Currently amended) A polymeric coating composition ~~according to Claim 50~~ comprising a coating of an unsaturated polyester containing one or more maleate/fumarate residues; one or more monomers which contain one or more vinyl

ether groups, one or more vinyl ester groups, or a combination thereof, and, optionally, one or more acrylic or methacrylic acid esters; or a mixture thereof having copolymerized therein one or more of the dye compounds defined in Claim 2.

53. (Currently amended) A polymeric coating according to Claim 51 containing from about 0.05 to 15.0 weight percent of the residue of one or more of the dye compounds of Claim 2 based on the weight of the coating.